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NOTICE OF ALLOWANCE AND FEE(S) DUE

23838

7590

08/25/2009

KENYON & KENYON LLP 1500 K STREET N.W. SUITE 700 WASHINGTON, DC 20005 EXAMINER

PARSONS, THOMAS H

ART UNIT

PAPER NUMBER

1795

DATE MAILED: 08/25/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
_	10/574,565	04/04/2006	Tomokazu Hayashi	77661-65	2114

TITLE OF INVENTION: SEAL STRUCTURE OF A FUEL CELL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/25/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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maintenance fee notifica	tions.	ock 1 for any change of address)			ill be mailed to the current and/or (b) indicating a sepa- mailing can only be used for		
CORRENT CORRESTORD	ENCE ADDRESS (NOC. OSCIDI	ock I for any change of address)	Feet	c) Transmittal This	s certificate cannot be used for paper, such as an assignment of mailing or transmission.	for any other accompanying	
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	KENYON LLP		I her	reby certify that this	s Fee(s) Transmittal is being	g deposited with the United	
1500 K STREE	ΓN.W.		I hereby certify that this Fee(s) Transmittal is being deposited with the States Postal Service with sufficient postage for first class mail in an er addressed to the Mail Stop ISSUE FEE address above, or being fa transmitted to the USPTO (571) 273-2885, on the date indicated below.				
SUITE 700 WASHINGTON	J. D.C. 20005		trans	smitted to the USPT	(571) 273-2885, on the d	late indicated below.	
WASIIINGTON	N, DC 20003					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/574,565	04/04/2006		Tomokazu Hayashi		77661-65	2114	
TITLE OF INVENTION	I: SEAL STRUCTURE (OF A FUEL CELL					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/25/2009	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
PARSONS,	THOMAS H	1795	429-035000				
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p		4		
	oondence address (or Cha B/122) attached.	inge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
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	lication (or "Fee Address 02 or more recent) attack		2 registered attorney of a 2 registered patent attorney listed, no name will be	rneys or agents. If n	to name is 3		
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or typ	pe)			
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the pa T a substitute for filing an	atent. If an assigne	e is identified below, the d	ocument has been filed for	
(A) NAME OF ASSI	•	piedoli of this form is NO	(B) RESIDENCE: (CITY	o .	OUNTRY)		
(H) WHILL OF HOSE	GIVEE		(B) RESIDENCES (CIT I	and STATE OR CO			
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual 🖵 Co	rporation or other private gr	oup entity 🖵 Government	
4a. The following fee(s)	are submitted:	41	b. Payment of Fee(s): (Plea	se first reapply an	y previously paid issue fee	shown above)	
☐ Issue Fee			A check is enclosed.				
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
Advance Order -	# of Copies		overpayment, to Depo	authorized to charg sit Account Number	ge the required fee(s), any de r(enclose a	eficiency, or credit any an extra copy of this form).	
5. Change in Entity Sta	*	· · · · · · · · · · · · · · · · · · ·	_				
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other than the Office.	ne applicant; a regis	tered attorney or agent; or the	ne assignee or other party in	
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This collection of inform	nation is required by 37 (`FR 1 311 The information	on is required to obtain or r	etain a benefit by th	ne public which is to file (an	d by the USPTO to process)	
an application. Confiden submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this bu	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is est depending upon the indivite Chief Information Office	imated to take 12 m idual case. Any cor cr. U.S. Patent and T	ninutes to complete, includir mments on the amount of ti Frademark Office, U.S. Den	ng gathering, preparing, and me you require to complete artment of Commerce, P.O.	
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,565	04/04/2006	Tomokazu Hayashi	77661-65 2114	
23838 759	90 08/25/2009		EXAM	INER
KENYON & KEI	NYON LLP	PARSONS,	ГНОМАЅ Н	
1500 K STREET N	I.W.	ART UNIT	PAPER NUMBER	
SUITE 700 WASHINGTON, D	OC 20005	1795	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 373 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 373 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/574,565	HAYASHI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	THOMAS H. PARSONS	1795			
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communing GHTS. This application is substand MPEP 1308.	nis application. If not included cation will be mailed in due cours			
2. ☑ The allowed claim(s) is/are <u>14-23</u> .					
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application	No	om the		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.				
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2 ho Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sum Paper No./Ma 7.	mal Patent Application mary (PTO-413), ail Date nendment/Comment atement of Reasons for Allowanc	e		

Response to Amendment

This is in response to the Amendment filed 4 June 2009.

(Previous) DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The rejections of claims 14-23 under 35 U.S.C. 103(a) as being unpatentable over Kikuchi et al. (US 6,833,210) in view of Inoue et al. (US 20020055027) have been **withdrawn** in view of Applicants' Amendment.

Drawings

2. The drawings filed on 4 April 2006 are **accepted** by the Examiner.

Response to Arguments

3. Applicant's arguments, see page 5, line 12 through page 7, line 31, filed 4 June 2009, with respect to claims 14-23 have been fully considered and are persuasive. The rejections of the claims have been withdrawn.

REASONS FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 14-22 is the recitation in claim 14 of a seal structure of a fuel cell comprising an interrupted back-up disposed at an at least one of said

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connecting gas passage and said connecting coolant passage, wherein said back-up is located on one side of said separator and a portion of the gas and coolant seal line located on the other side of said separator being disposed such that said back-up and said portion of said seal line are overlapped with each other in a fuel cell stacking direction, and wherein the other of the gas or coolant seal line is located on the same side as said back-up and includes a straight line portion located on a same straight line as said back-up.

The primary reason for the allowance of claim 23 the recitation of a seal structure of a fuel cell comprising an interrupted back-up disposed at an at least one of said connecting gas passage and said connecting coolant passage, wherein said back-up being located on one side of said separator and a portion of the or coolant seal line located on the other side of said separator being disposed such that said back-up and said portion of said seal line are overlapped with each other in a fuel cell stacking direction, wherein the other of the gas or coolant seal line is located on the same side as said back-up and includes a straight line portion located on a same straight line as said back-up, and wherein said back-up is formed in said separator and includes a rib having a plurality of tunnels formed in said rib, between the separator and a cover plate, and spaced from each other, and the cover plate contacts an adjacent separator.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Page 4

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOMAS H. PARSONS whose telephone number is (571)272-

1290. The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Pat Ryan can be reached on (571) 272-1292. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PATRICK RYAN/

Supervisory Patent Examiner, Art Unit 1795

Thomas H Parsons Examiner

Art Unit 1795
